

$\frac{2}{2}$ 1.	A slot machine, comprising:
ا الم طور ا الم طور	a central processing unit for operating the slot machine in response to a wager;
4	and
5	a reel mechanism including a motor, a symbol-bearing reel, and a reel driver,
6	said motor including a rotatable shaft, said reel being mounted to said
7	shaft, said reel driver including a local microcontroller distinct from
8	and coupled to said central processing unit, said reel driver being
9	coupled to said motor to cause said motor to rotate said reel, said local
10	microcontroller performing low-level reel driver operations
11	independent from said central processing unit.
12	

2. The slot machine of claim 1, wherein in response to actuation by a player, said reel is rotated and stopped to place the symbols of said reel in visual association with one or more pay lines.

3. The slot machine of claim 1, wherein said low-level reel driver operations include monitoring said reel and at least partially controlling its position.

4. The slot machine of claim 3, wherein said local microcontroller monitors said reel by sampling its state multiple times per second in real time, and responds with control commands for controlling the position of said reel.

5. The slot machine of claim 1, wherein said local microcontroller is serially connected to said central processing unit.

The slot machine of claim, wherein said reel driver includes a printed circuit board proximate said reel, said microcontroller being mounted to said printed circuit board.

7. The slot machine of claim 1, wherein said central processing unit issues high-level commands to said local microcontroller, said high-level commands including a

1	start s	pin command for spinning said reel and a stop command for stopping said reel
2	at a sp	pecified stop position.
3		
4	8.	The slot machine of claim 1, wherein said reel includes an encoder for
5	indica	ting the position of said reel, and wherein said reel driver includes an optical
6	detect	or for reading said encoder, said local microcontroller being coupled to said
7	optica	l detector to monitor the position of said reel.
8		
9	<u> </u> 2.	A slot machine, comprising:
Sup 1	r3/	a motor including a rotatable shaft;
11		a symbol-bearing reel mounted to said shaft;
12		a reel driver including a local microcontroller serially linked to said central
13		processing unit, said reel driver being coupled to said motor to cause
14		said motor to rotate said reel, said local microcontroller performing
15		low-level reed driver operations related to rotation of said reel; and
16		a central processing unit issuing high-level commands to said reel driver
17		related to the rotation of said reel.
18		•
19	10.	The slot machine of claim 9, wherein said high-level commands include a start
20	spin c	command and a stop command, said start spin command instructing said reel
21	driver	to cause said motor to rotate said reel, said stop command instructing said reel
22	driver	to stop said motor from rotating said reel at a specified stop position
23		
24	11.	The slot machine of claim 10, wherein said low-level commands include
	11.	The slot machine of claim 10, wherein said 10% fever commands metade
25		ing a state of said reel in real time and at least partially controlling its position.
26		ing a state of said reel in real time and at least partially controlling its position.
26	sampl	ing a state of said reel in real time and at least partially controlling its position. A slot machine, comprising
26		A slot machine, comprising a motor including a rotatable shaft;
26	sampl	ing a state of said reel in real time and at least partially controlling its position. A slot machine, comprising
26 27 38	sampl	A slot machine, comprising a motor including a rotatable shaft; a symbol-bearing reel mounted to said shaft;
26 27 28 28	sampl	A slot machine, comprising a motor including a rotatable shaft;

1	a central processing unit for issuing a start spin command and a stop command
2	to said reel driver, said start spin command instructing said reel driver
3	to cause said motor to rotate said reel, said stop command instructing
4	said reel driver to stop said motor from rotating said reel at a specified
5	stop position;
6	said local microcontroller monitoring said reel in real time and at least
7	partially controlling its position after said start spin command and prior
8	to said stop command.

13. The slot machine of claim 12, wherein said reel includes an encoder for indicating the position of said reel, and wherein said reel driver includes an optical detector for reading said encoder, said local microcontroller being coupled to said optical detector to monitor the position of said reel in real time.

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